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SHEET 1 OF 1

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	SERIAL NO. 08/684,243
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 19, 1996	GROUP 2602

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
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**FOREIGN PATENT DOCUMENTS**

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

EXAMINER INITIAL	
S	"A Wireless Multimedia Network on a Time Division Duplex CDMA/TDMA", Seki K. et al., <i>IEICE Transactions on Communications</i> , vol. E78-B, no. 7, 1 July 1995, pages 1002-1015.
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(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE 07/19/96	GROUP 2711

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
A	5,157,686	Oct. 20, 1992	Omura, et al.	375	1	Jun. 24, 1991
B	5,164,958	Nov. 17, 1992	Omura	375	1	Jul. 19, 1991
C	5,166,952	Nov. 24, 1992	Omura, et al.	375	1	May 24, 1990
D	5,253,268	Oct. 12, 1993	Omura, et al.	375	1	Jun. 24, 1991
E	5,737,329	Apr. 7, 1998	Horiguchi	370	342	Apr. 12, 1996
F	5,930,235	Jul. 27, 1999	Arai	370	252	Feb. 28, 1997
G	5,822,359	Oct. 13, 1998	Bruckert, et al.	375	200	Oct. 17, 1994
H	5,610,911	Mar. 11, 1997	Ishikawa, et al.	370	503	Sep. 28, 1994
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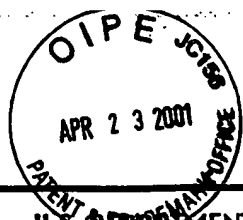
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(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 19, 1996	GROUP 2602

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
<i>S</i>	A	5,751,739	May 12, 1998	Seshadri, et al.	371	43	Apr. 29, 1994
<i>S</i>	B	4,218,654	Aug. 19, 1980	Ogawa, et al.	370	97	Feb. 21, 1979
<i>S</i>	C	5,072,445	Dec. 10, 1991	Nawata	370	104	Nov. 30, 1989
<i>S</i>	D	5,617,410	Apr. 1, 1997	Matsumoto	370	342	Mar. 15, 1995
<i>S</i>	E	5,712,982	Jan. 27, 1998	Marcel	395	200.17	Sep. 20, 1995
<i>S</i>	F	5,745,484	Apr. 28, 1998	Scott	370	347	Jun. 5, 1995
<i>S</i>	G	5,761,198	Jun. 2, 1998	Kojima	370	337	Sep. 22, 1995
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FOREIGN PATENT DOCUMENTS

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FORM PTO-1449  
(Rev. 2-32)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
TER-002.3P

SERIAL NO.  
08/895,612

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

APPLICANT  
RAKIB, et al.

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE  
July 16, 1997

GROUP  
unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
<i>[Signature]</i> A	5,499,236	Mar 12, 1996	Giallorenzi, et al.	370	18	Aug 16, 1994
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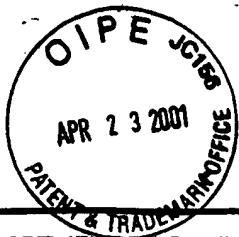
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE February 9, 1998	GROUP unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
A	5,488,412	Jan 30, 1996	Majeti, et al.	348	10	Mar 31, 1994
B	5,512,935	Apr 30, 1996	Majeti, et al.	348	9	Mar 31, 1994
C	5,534,913	Jul 9, 1996	Majeti, et al.	348	7	Mar 31, 1994
D	5,586,121	Dec 17, 1996	Moura, et al.	370	404	Apr 21, 1995
E	5,594,872	Jan 14, 1997	Kawano, et al.	395	200.15	Apr 26, 1994
F	5,608,446	Mar 4, 1997	Carr, et al.	348	6	May 9, 1995
G	5,608,728	Mar 4, 1997	Ulm, et al.	370	488	Apr 13, 1995
H	5,619,531	Apr 8, 1997	Taylor, et al.	375	222	Nov 14, 1994
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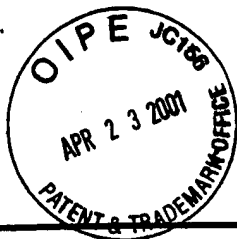
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
A	Re. 35,774	Apr. 21, 1998	Moura, et al.	348	12	Nov. 16, 1994
B	4,829,569	May 9, 1989	Seth-Smith, et al.	380	10	Jul. 8, 1986
C	4,894,789	Jan. 16, 1990	Yee	364	521	Feb. 22, 1988
D	5,093,718	Mar. 3, 1992	Hoarty, et al.	358	84	Sep. 28, 1990
E	5,130,983	Jul. 14, 1992	Heffner, III	370	85.8	Mar. 27, 1990
F	5,133,079	Jul. 21, 1992	Ballantyne, et al.	455	4.1	Aug. 28, 1990
G	5,195,092	Mar. 16, 1993	Wilson, et al.	370	94.2	Aug. 30, 1991
H	5,200,993	Apr. 6, 1993	Wheeler, et al.	379	96	May 10, 1991
I	5,247,347	Sep. 21, 1993	Litteral, et al.	358	85	Sep. 27, 1991
J	5,373,288	Dec. 13, 1994	Blahut	340	825.08	Oct. 23, 1992

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
<i>JS</i>	A 5,408,465	Apr. 18, 1995	Gusella, et al.	370	17	Jun. 21, 1993
<i>JS</i>	B 5,550,578	Aug. 27, 1996	Hoarty, et al.	348	7	Oct. 6, 1994
<i>JS</i>	C 5,572,517	Nov. 5, 1996	Safadi	370	50	Mar. 10, 1995
<i>JS</i>	D 5,572,528	Nov. 5, 1996	Shuen	370	85.13	Mar. 20, 1995
<i>JS</i>	E 5,828,655	Oct. 27, 1998	Moura, et al.	370	236	Aug. 21, 1996
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EXAMINER INITIAL	DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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<i>JS</i>	EP 0 767 544 A2	Apr. 9, 1997	Europe	H04B	1/707	X	
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FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. TER-002.3P	SERIAL NO. 08/895,612
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT RAKIB	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE July 16, 1997	GROUP unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
A	5,442,627	Aug. 15, 1995	Viterbi, et al.	370	22	Jun. 24, 1993
B	5,452,328	Sep. 19, 1995	Rice	375	210	Jul. 30, 1993
C	5,090,024	Feb. 18, 1992	Vander Mey, et al.	375	1	Aug. 23, 1989
D	4,933,930	Jun. 12, 1990	Lien et al.	370	18	Oct. 31, 1988
E	5,448,555	Sep. 5, 1995	Bremer et al.	370	20	Jun. 14, 1993
F	5,404,570	Apr. 4, 1995	Charas et al.	455	22	Nov. 23, 1992
G	5,440,585	Aug. 8, 1995	Partridge, III	375	261	Jun. 14, 1993
H	4,723,164	Feb. 2, 1988	Nienaber	358	148	Jun. 28, 1985
I	5,418,813	May 23, 1995	Schaffner et al.	375	205	Dec. 6, 1993
J	4,926,130	May 15, 1990	Weaver	328	14	Jan. 19, 1988
K	5,224,122	Jun. 29, 1993	Bruckert	375	1	Jun. 29, 1992
L	5,325,394	Jun. 28, 1994	Bruckert	375	1	Mar. 3, 1993
M	4,773,066	Sep. 20, 1988	Kirkman	370	85	Apr. 15, 1986
N	4,912,721	Mar. 27, 1990	Pidgeon Jr., et al.	375	1	Apr. 29, 1988
O	5,235,619	Aug. 10, 1993	Beyers, II et al.	375	38	Mar. 20, 1990

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EXAMINER INITIAL	DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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P	PCT/US95/10899	Mar. 21, 1996	PCT			X	
Q	PCT/US95/04329	Oct. 26, 1995	PCT			X	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	DOCUMENT DESCRIPTION
T	<del>Westlaw Dialog Search</del>
U	R. De Gaudenzi et al., "Performance Evaluation of Quasi-Synchronous Code Division Multiple Access (QS-CDMA) for Satellite Mobile Systems," GLOBECOM '90: IEEE Global Telecommunications Conference, 1800-1804. (04/1990)

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A	4,811,365	Mar 7, 1989	Manno	375	107	Nov 7, 1986
B	5,425,027	Jun 13, 1995	Baran	370	69.1	Jan 4, 1993
C	4,688,210	Aug 18, 1987	Eizenhofer, et al.	370	335	Mar 18, 1986
D	5,539,730	Jul 23, 1996	Dent	370	320	Jan 11, 1994
E	5,533,013	Jul 2, 1996	Leppanen	370	206	Apr 11, 1995
F	5,481,533	Jan 2, 1996	Honig, et al.	375	206	May 12, 1994
G	5,390,166	Feb 14, 1995	Rohani, et al.	370	335	Jul 14, 1993
H	5,363,404	Nov 8, 1994	Kotzin, et al.	370	352	Jul 13, 1993
I	5,345,439	Sep 6, 1994	Marston	370	18	Apr 23, 1993
J	5,347,304	Sep 13, 1994	Moura, et al.	348	12	Jul 28, 1993
K	4,475,208	Oct 2, 1984	Ricketts	375	1	Jan 18, 1982
L	4,635,274	Jan 6, 1987	Kubota	375	1	Apr 25, 1985
M	5,463,660	Oct. 31, 1995	Fukasawa, et al.	375	205	Aug. 3, 1994
N	5,442,662	Aug. 15, 1995	Fukasawa, et al.	375	205	Jun. 16, 1994
O	5,414,699	May 9, 1995	Lee	370	18	Sep. 27, 1993

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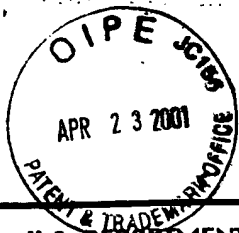
EXAMINER INITIAL	DOCUMENT
T	R. Lupas et al., "Linear Multiuser Detectors for Synchronous Code-Division Multiple Access Channels," <del>IEEE Transactions on Information Theory, Vol. 35, Issue 1, pgs. 123-136. (01/1989)</del>
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U.S. PATENT DOCUMENTS

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A	5,345,472	Sep. 6, 1994	Lee	375	1	Aug. 2, 1993
B	5,297,162	Mar. 22, 1994	Lee, et al.	375	1	Jun. 4, 1993
C	5,327,455	Jul. 5, 1994	De Gaudenzi, et al.	375	1	Mar. 18, 1993
D	5,319,634	Jun. 7, 1994	Bartholomew, et al.	370	18	Oct. 7, 1991
E	5,416,797	May 16, 1995	Gilhousen, et al.	375	705	Jan. 24, 1992
F	4,554,579	Nov. 19, 1985	Citta	358	86	Sep. 6, 1984
G	4,553,161	Nov. 12, 1985	Citta	358	86	Sep. 6, 1984
H	5,231,664	Jul. 27, 1993	Bestler, et al.	380	20	Nov. 14, 1991
I	5,239,557	Aug. 24, 1993	Dent	371	1	Apr. 10, 1992
J	4,460,992	Jul. 17, 1984	Gutleber	370	19	Nov. 4, 1982
K	5,363,403	Nov. 8, 1994	Schilling, et al.	375	1	Apr. 22, 1993
L	4,470,138	Sep. 4, 1984	Gutleber	370	18	Nov. 4, 1982
M	5,394,391	Feb. 28, 1995	Chen, et al.	370	18	Oct. 15, 1992
N	5,442,625	Aug. 15, 1995	Gitlin, et al.	370	18	May 13, 1994
O	5,233,630	Aug. 3, 1993	Wolf	375	67	May 3, 1991
P	4,757,460	Jul. 12, 1988	Bione, et al.	364	514	Jun. 14, 1985
Q	5,235,615	Aug. 10, 1993	Omura	375	1	Jul. 21, 1992
R	5,373,502	Dec. 13, 1994	Turban	370	18	Mar. 25, 1993
S	5,353,300	Oct. 4, 1994	Lee, et al.	375	1	Jun. 7, 1993
T	5,193,094	Mar. 9, 1993	Viterbi	371	43	Mar. 7, 1990
U	5,359,624	Oct. 25, 1994	Lee, et al.	375	1	Jun. 7, 1993
V	5,309,474	May 3, 1994	Gilhousen, et al.	375	1	Mar. 27, 1992
W	5,280,472	Jan. 18, 1994	Gilhousen, et al.	370	18	Mar. 9, 1992
X	5,313,454	May 17, 1994	Bustini, et al.	370	13	Apr. 1, 1992
Y	5,467,342	Nov. 14, 1995	Longston, et al.	370	17	Oct. 5, 1994
Z	5,305,308	Apr. 19, 1994	English, et al.	370	32.1	Oct. 29, 1992

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U.S. PATENT DOCUMENTS

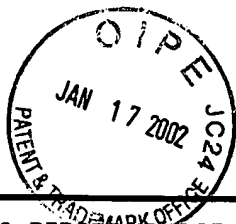
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<i>Q</i>	A 4,748,681	May 31, 1998	Schmidt	455	33	Apr. 28, 1986
<i>Q</i>	B 5,295,152	Mar. 15, 1994	Gudmundson, et al.	375	1	Apr. 10, 1992
<i>Q</i>	C 5,442,700	Aug. 15, 1995	Snell, et al.	380	15	Sep. 22, 1994
<i>Q</i>	D 5,557,316	Sep. 17, 1996	Hoarty, et al.	348	7	Sep. 29, 1994
<i>Q</i>	E 5,511,067	Apr. 23, 1996	Miller	370	18	Jun. 17, 1994
<i>Q</i>	F 5,398,258	Mar. 14, 1995	Su, et al.	375	200	Oct. 26, 1993
<i>Q</i>	G 5,583,853	12/10/1996	Giallorenzi, et al.	370	441	11/28/95
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EXAMINER INITIAL	
	S Johansson A.L., et al., "Successive Interference Cancellation in Multiple Data Rate DS/CDMA Systems", <i>Proceedings of the Vehicular Technology Conference</i> , US, New York, IEEE, vol. CONF. 45, 25 July 1995, pages 704-708.
	T Akihiro Kajiwara, et al., "Spread Spectrum Demodulator Using Block Signal Processing", <i>Proceedings of the International Conference on Communications</i> , US, New York, IEEE, Vol. 23, June 1991, pages 894-898.
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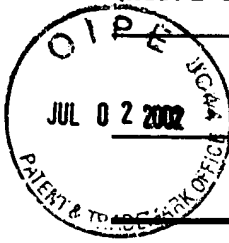
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<input checked="" type="checkbox"/>	A	5,229,996	Backstrom, et. al.	370	100	Jul. 21, 1992
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EXAMINER INITIAL	
<input type="checkbox"/>	S Hiroshi, et. al., " <del>Semi-Autonomous Synchronization Among Base Stations for TDMA-TDD Communication Systems,</del> " July 7, 1994, Pages 862-866.
<input type="checkbox"/>	T Johansson, et. al., " <del>Successive Interference Cancellation in Multiple Data Rate DS/CDMA Systems,</del> " July 25, 1995, Pages 704-708.
<input type="checkbox"/>	U Kajiwara, et. al., " <del>Spread Spectrum Demodulator Using Block Signal Processing,</del> " 1991 IEEE, Pages 896-898.
<input checked="" type="checkbox"/>	V Richard D.J. van Nee, "Timing Aspects of Synchronous CDMA," Pages 439-443.

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